

ABSTRACT

An apparatus for eliminating reflection of an input ~~RF~~ electric signal by providing an impedance matching region between an input region and mutual operation region is disclosed. The impedance may be adjusted by varying the width of a signal electrode and the interval between the signal electrode and ground electrodes.

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The apparatus preferably eliminates any reflection of signals in Mach-Zehnder optical modulator that is generated when velocity matching is performed for the light propagated through the optical

Feb. 28, '08 waveguide and the ~~RF~~ electric signal propagated through the signal electrode

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and an electrode interval is varied for lowering the drive voltage

because an impedance of the mutual operation region becomes lower

than the input impedance.